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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,817	07/28/2003	Hideki Ozawa	1259-03	5866	
35811	7590 11/02/2005		EXAM	INER	
IP GROUP OF DLA PIPER RUDNICK GRAY CARY US LLP			AHMED, SHEEBA		
1650 MARKE SUITE 4900	T ST		ART UNIT	PAPER NUMBER	
	PHILADELPHIA, PA 19103				
			DATE MAILED: 11/02/200	DATE MAIL ED: 11/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	Application No. 10/628,817	OZAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Sheeba Ahmed	1773				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  iill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 08 Au	jaust 2005.					
· <u> </u>	action is non-final.					
· ·	, — ·					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,4-13 and 16-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,4-13 and 16-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Gee the attached detailed Office action for a list of	of the certified copies not receive	u.				
Amada and A						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal P	atent Application (PTO-152)				

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#### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 8, 2005 has been entered.

## Response to Amendment

2. Amendments to claims 1, 12, and 13 have been entered in the above-identified application. Claims 2, 3, 14, and 15 have been cancelled. New claims 22-24 have been added. Claims 1, 4-13, and 16-24 are now pending.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 4-13, and 16-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schlueter, Jr. et al. (US 6,201,945)

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Schlueter, Jr. et al. disclose a polyimide film containing electrically conductive doped metal oxide filler dispersed therein and wherein the polyimide film has a surface resistivity of from 10<sup>4</sup> to 10<sup>12</sup> ohm/sq (Column 4, lines 3-7), a volume resistivity of from 10<sup>4</sup> to 10<sup>11</sup> ohm.cm (the polyimide film is equivalent to the metal oxide and conductive ultrafine particle mixed layer) (Column 8, lines 50-60) and has a thickness of form about 25 to about 150 microns thick (Column 8, lines 41-45). The film may have an outer layer (equivalent to the film upon which the metal oxide and conductive ultrafine particle mixed layer is formed). The film is prepared by using a reaction product of a diamine and a dianhydride dissolved in a solvent, adding and dispersing an appropriate amount of filler, casting the mixture of a surface, removing the solvent by evaporation and eating to convert the polyamic acid to polyimide (Column 9, lines 15-30). Preferred doped metal oxides include aluminum doped zinc oxide. Additional conductive filler may be present in the polyimide layer and examples include indium tin oxide. The desired resistivity can be obtained by varying the concentration of the conductive fillers (Column 12, lines 25-60).

Schlueter, Jr. et al. do not teach that the metal oxide and indium tin oxide particle are present in a weight ratio of 0.01 to 0.1 or that the indium tin oxide particle have a particle size of no greater than 0.1 microns.

However, it would have been obvious to one having ordinary skill in the art to optimize the size and amount of the metal oxide and indium tin oxide particles given that Schlueter, Jr. et al. specifically teach that the desired resistivity can be obtained by varying the concentration of the conductive fillers. ). With regards to the limitation that

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the film is antistatic, the Examiner takes the position that such a property limitation is inherently met by the polyimide film taught by Schlueter, Jr. et al. given that the chemical composition of the film taught by Schlueter, Jr. et al. and that of the claimed invention is identical. Furthermore, with regards to the limitations of claim 13 which recite that the conductive ultrafine particles are firmly held in the film by the metal oxide and thereby allow the surface resistance value to be kept within less than 10-fold compared to the initial value, the Examiner takes the position that such a limitation is met by the electrically conductive doped metal oxide filler containing polyimide film taught by Schlueter given that the chemical composition of the film taught by Schlueter, Jr. et al. and that of the claimed invention is identical.

# Response to Arguments

4. Applicant's arguments with respect to claims 1, 4-13, and 16-24 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheeba Ahmed whose telephone number is (571)272-1504. The examiner can normally be reached on Mondays and Thursdays from 9:30am to 6:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571)272-1284. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheeba Ahmed

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October 31, 2005